Bruhath Bengaluru Bengaluru Mahanagara Palike

Name : Improvements & asphalting to main and cross roads at Soap Factory Layout, M.S.Ramaiah Layout, Siddeshwara Layout, Bhuvaneshwari Layout & Vishweshwaraiah Layout in Bagalagunte in Ward No:14 (5-Works) Package No. DZ 2017-18-(04)

Sl.No	Item Name	Unit	Quantity	Rate	
				In Rs	In Words
1	KSRRB M200-13.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications II. By Mechanical Means. A. Cement Concrete Grade M-15 &M-20 Page No.137 Item No.18.2 of KPWD S.R2016-2017	Sqm	573.13	409.47	Four hundred nine rupees forty-seven Paise
2	Removing B.S slab of drain and stacking (Page No 25., I.no.5.32 of KPWD S.R 2016-17).	Sqm	492.75	73.59	Seventy three rupees fifty nine paise
3	KSRB 300-1 : Earthwork excavation by manual means in ordinary soil involving an average harizintal throw upto 2 meters and an average horizontal lift upto 0.5m, excavated surface leveled and sides neately dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (Page No 142., I.No.19.1 of KPWD S.R 2016-17)	Cum	2859.51	97.32	Ninety seven rupees thirty two paise
4	KSRB4-1.2 Providing and Laying in Position plain cement concerete of mix 1:3:6 with OPC Cement @ 220 Kgs 40 MM and Down Size graded granite metal coarse aggregates @ 0.892 cum and Fine aggragetes @ 0.465cum machine mixed, Machine mixed Concerete laid in Layers not Exceeding 15 cms thick well compacted in foundation including cost of all materials labour HOM of machinery , curing complete as per specifications. Specification No 4.1,4.2 1:3:6 Concerete Page NO 12 I.No. 4.2 of KPWdDS.R 2016-2017	Cum	306.96	5989.01	Five thousand nine hundred and eighty nine rupees one paise
5	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregtes @ 0.56cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted,in foundation,plinth and cills including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2 (Page No.13..,I.No.4.7 of KPWD S.R 2016-17)	Cum	86.46	6269.11	Six Thousand Two Hundred Sixty Nine rupees Eleven paise
6	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not less than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x15x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. (Page No 25., I.No.5.27.1 of KPWD S.R 2016-17)	Sqm	970.8	1112.11	One Thousand One Hundred Twelve rupees Eleven paise

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7	Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, stone hammered dressed in courses not less than 20cms high, bond stones at two m. apart in each course including cost of materials, labours, curing complete as per specifications. (Page NO 23., I.No.5.6 of KPWD S.R 2016-17)	Cum	34.74	4969.47	Four Thousand Nine Hundred Sixty Nine rupees Fourty Seven paise
8	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (Page NO 12., I.No.4.6 of KPWD S.R 2016-17)	Cum	60.8	6457.82	Six Thousand Four Hundred Fifty Seven rupees Eighty Two paise
9	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork,curing,including cost of all materials, labour, hire charges of machinery, loading,unloading, lead and lift, transportation etc., complete(Page No 25., I.No.5.27.1 of KPWD S.R 2016-17)	Nos	2225	432.03	Four Hundred Thirty Two rupees Three paise
10	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (Page No.182.. I.No.24.1 of KPWD S.R.2016-17)	Sqm	1755.1	71.21	Seventy One rupees Twenty one paise
11	KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 (Page No. 149 I.No.19.64 of KPWD S.R 2016-17)	Sqm	688.5	5.93	Five rupees Ninety Three paise
12	Construction of Sub Grade and earthen Shoulders with approved material Gravel/Murrum With all Lifts & Leads transporting to site, Spreading Grading to required slope and compacted to meet requirement of Table No.300.2 complete as per specifications (including cost of earth , watering Charges & Compaction by vibratory roller) MORTH Specification No.305 (Page no.148,1 no 19.62 of KPWD S.R 2016-17)	Sqm	103.28	392.86	Three Hundred Ninety Two rupees Eighty Six paise
13	KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method.Close graded granular sub-base material as per 400-1 For Grading- II Materia (Page No.155., I. No.20.5.1 of KPWD S.R 2016-17)	Cum	172.13	1731.66	One Thousand Seven Hundred Thirty one rupees Sixty six paise

Sl.No	Item Name	Unit	Quantity	Rate	
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14	KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406(Page No 158., I.No.20.18 of KPWD S.R 2016-17).	Cum	1177.48	1979.72	One Thousand nine hundred Eighty three rupees seventy two paise
15	KSRRB M600 22.6.2Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 ReaffirmecF2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. M20 (at 300Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.43cum) Page No 177 I.No. 22.6.2 of KPWD S.R. 2016-2017	Cum	343.88	6168.23	Six thousand one hundred sixty eight rupees and twenty three paise
16	Providing vaccum dewatering concrete as per direction of engineer in charge of the work Page No 177 I.No. 22.7 of KPWD S.R 2016-2017	Cum	2292.5	106.82	One Hundred six rupees eighty two paise
17	Providing groove cutting for width of 5mm to 10mm and depth 80mm- 100mm including cost of cutting machine, generator & HOM of machinery, including cost of blade,coolant etc., including cleaning of groove & providing sand and hot bitumen fillars, and filler metal etc., including cost of conveyance of all materials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications. Page No 178 I.No.22.8.1 of KPWD S.R. 2016-2017	Cum	674.4	136.49	One hundred Thirty six rupees fourty nine paise
18	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM,WMM ,including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per Specifications. MORTH Specification No. 502 (page no.161., I.No.21.6 of KPWD S.R.2016-17)	Sqm	688.5	30.86	Thirty rupees Twenty Three paise
19	KSRRB 500-2 : Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH / Chapter 5 (Page No.161., I.No.21.2 of KPWD S.R 2016-2017)	Sqm	14874.7	3.56	Three rupees Fifty Six paise

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20	KSRRB-3000 Filling Pot-holes and Patch Repairs with Bituminous Concrete, 40 mm KSRRB M3000-5. Removal of all failed material, trimming of completed excavation to provide firm vertical faces, cleaning of surface, applying tack coat on the sides and base of excavation at 2.5kg/sqm as per clause 500.3, back filling the pot holes with hot bituminous material as per clause 500.4, compacting, trimming and finishing the surface to form a smooth continuous surface, all as per clause 3004.2 complete as per specifications MORTH Specification No. 3004.2 (Page No.257., I.No.35.5 of KPWD S.R 2016-2017)	Sqm	369.68	338.26	Three Hundred thirty eight rupees twenty six paise
21	KSRRB 500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH / Chapter 5 (Page No.161, Item No. 21.7 of KPWD S.R.2016-2017)	Sqm	20701.8	13.06	Thirteen rupees Six paise
22	KSRRB M500-11 : Providing and laying bituminous Macamdam on prepared surface with crushed coarse aggregates as design mix for base/binding course including loading of agregates with F.E loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity transporting the mixed material in tipper to paver and laying mixed materials paver finisher to the required level and grade, roo lling by power roller to achieve the desired density but excluding cost of primer / tack coat including lead, lift and cost of all materials, labour HOM of machineries complete as per specifications using TPH capacity HMP with sensor paver Gr-II (50mm to 75mm) with 3.3% VG-30 Bitumen (Page No.162, Item No. 21.11.5 of KPWD S.R 2016-17)	Cum	464.95	6210.95	Six Thousand Two Hundred Ten rupees Ninety Five paise
23	KSRRB M500-19 : Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH Specification clause No.500.9 complete in all respects complete as per specifications.MORTH specification no.509 using 40-60 TPH capacity HMP with Sensor paver Gr- II (30mm to 45mm) with 6% VG-30 bitumen (Page No.165, Item No. 21.23.12 of KPWD S.R 2016-17)	Cum	622.53	15283.48	Fifteen thousand two hundred eighty three rupees fourty paise

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24	Add Plastic to Bituminous Concrete 8% of Bitumen	Kg	7021.88	30.23	Thirty rupees Twenty Three paise
25	KSRRB M800-13 Road Markig with Hot Applied Thermoplastic compound with Reflectirising glass beads on Bituminous suface:- Providing and laying of Hot applied thermoplastic compund 2.5mm thick including reflectorising glass beads at 250gm/sqm area thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35 the finished surface to be level uniform and pre firm streads and holes complete as per specficaions (Page No.185,I.No.24.15 of KPWD S.R. 2016-2017)	Sqm	535.58	607.68	Six Hundred Seven rupees Sixty Eight paise
26	Refixing B S Slab of Drains and Pointing in C.M (1:30 Page No.25., I.No.5.33 of KPWD S.R.2016-17)	Sqm	492.75	90.20	Ninety rupees twenty paise
27	Providing precast slab of 100 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge- Data rate	Cum	1508.85	2053.53	Two thousand fifty three rupees fifty three paise
28	Lead charges for conveying the excavated earth including loading and unloading upto 10kms as per directions (Page No.140 SL.No.5 of KPWD S.R 2016-17)	Cum	2859.51	118.69	One hundred eighteen rupees sixty nine paise

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